

## Who we are I the team

Juan Duque Project Architect

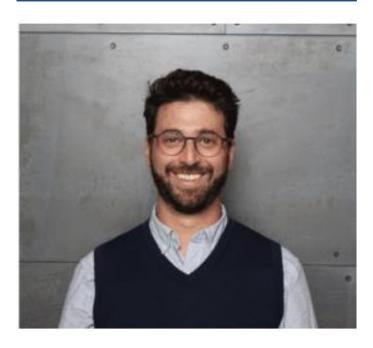




Marijke Smit Partner Project Director



**John Berg** Partner Project Advisor Josh Jackson
Planning Strategies
Director





### **Presentation Overview**

- 1. Introductions
- 2. Key issues facing NMCUSD
- 3. About MKThink
- 4. Our proposed process
- 5. Relevant Case Studies
- 6. Summary & Discussion



## The problems to solve

- Facilities can't accommodate current enrollment
- Aging facilities in an era of increasing stress on physical resources
- Challenge engaging public to support school improvements
- Scarce funds to build your way out of the problem



# Who we are I a unique, evidence-based approach to place making





## Experience | cross-sector knowledge + deep expertise in K12 education

Robert Half

University of Santa Clara

University of Santa Clara School of Law

University of Santa Clara Business School

Stanford Law School

Stanford School of Medicine

Stanford Graduate School of Education

Stanford LBRE

Stanford Medicine: Lucile Packard Hospital

Stanford Management Company Children's

San Francisco Unified School District

City of Dublin

City of Emeryville

City of Davis

Emery Unified School District

Santa Clara Valley Water District

Sonoma County Library

Golden Gate University

WeWork

Project Frog:

Scotts Valley USD Sar Fremont USD Lor

New Haven USD

South SF USD Oakland USD

Evergreen ESD

Santa Ana USD

Long Beach USD Redondo Beach USD

Los Angeles USD Jacoby Creek SD

National Parks Service

Arlington Unified School District, VA AltSchool

Berkeley Unified School District

Hillbrook School

Oakland Unified School District

Town School for Boys

UC Santa Cruz

Financial Engines

**General Motors** 

Marin Country Day School

Midpeninsula Regional Open Space

Mozilla, Inc.

**VMWare** 

The Nature Conservancy

**Jupiter Communications** 

University of San Francisco

**UC** Hastings

UC Berkeley, Boalt Hall School of Law

Hawaii Department of Education

University of Hawaii, Manoa

Occidental College

San Francisco Zoo

San Francisco SPCA

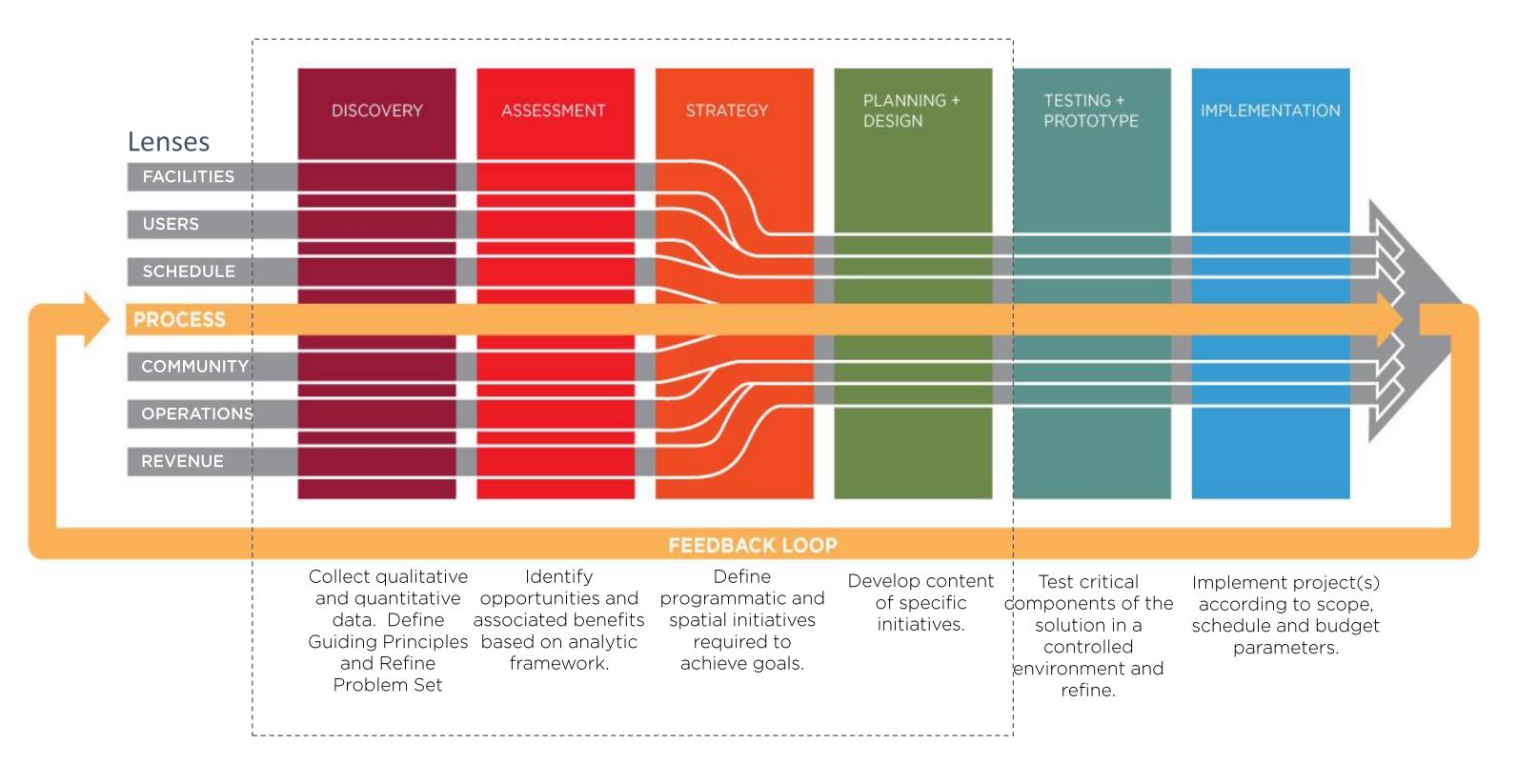








## MKThink Approach | An Integrated, Evergreen Process







# Approach for NMCUSD | Master Plan Workplan

	DISCOVERY	ASSESSMENT	STRATEGY	PLANNING
1.1 MEET WITH DISTRICT FACILITIES COMMITTEE	Convene District Facilities Steering Committee, Goal & objective alignment			
1.2 a COMMUNITY OUTREACH	Engage community members on Facilities Master Plan process through in-person workshops & digital forums			
1.2 b DATA COLLECTION & GAP ANALYSIS	Assess completeness & logic of existing data & conduct gap analysis to ID any additional necessary outstanding data			
1.3 DEVELOP CONDITIONS (NEEDS) ASSESSMENT - CURRENT		Data collection & review process, evaluating existing site conditions, curriculum & educational goals of District		
1.4 DEVELOP CONDITIONS (NEEDS) ASSESSMENT - FUTURE		Assist with prioritizing short & long-term District needs, incorporating community needs & recommendations for repairs & upgrades, etc		
1.5 DEMOGRAPHICS & ENROLLMENT PROJECTIONS		Review & update demographic study with housing market & enrollment projections studies, & provide sizing recommendations		
1.6 CAPACITY & UTILIZATION STUDY & DETERMINATION OF ELIGIBILITY FOR STATE FUNDING		Perform school site capacity study, including facilities inventory. Provide recommendations on max site sizes, possible additions or new sites		
1.7 FACILITIES EQUITY STUDY		Analyze and compare teaching and support spaces between the school sites, determine need for changes or additions		
1.8 DEVELOP FUTURE FACILITIES NEEDS, ALTERNATIVES & ED SPECS			Assist in establishing educational specifications to reflect District's facilities standards & educational goals	
1.9 COST ESTIMATES			Identify and project all costs associated with recommendations	
1.10 PREP FINAL DIGITAL FACILITIES MASTER PLAN				Help prep final digital Facilities Master Plan to be uploaded to District's website & accessed by District's constituents.
1.11 FACILITATION OF FC PRESENTATION				Assist with facilitation of FC presentation/discussion of findings & recommendations to Governing Board in workshop setting
1.12 PRESENTATION TO GOVERNING BOARD				Assist with presentation of draft Facilities Master Plan to Governing Board for feedback prior to finalization & approval by Board

# Arlington Public Schools - Case Study Problem: Projected Enrollment Beyond Capacity Across the District











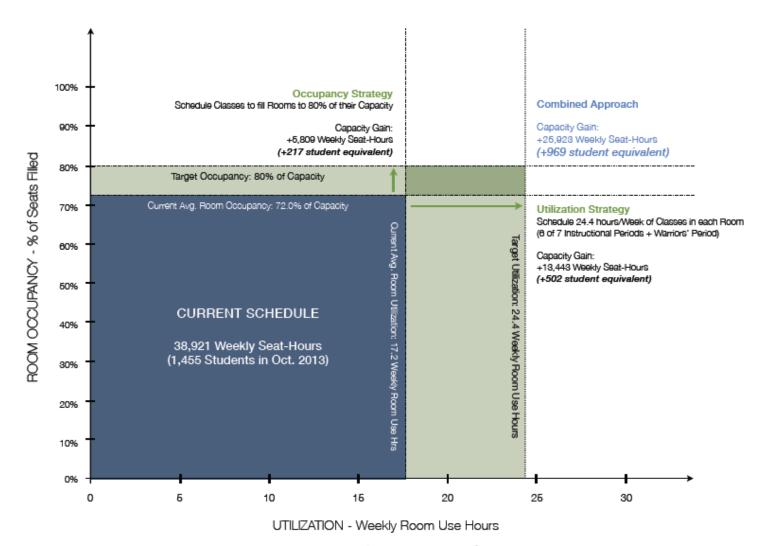
**TH**NK



# **Arlington Public Schools - Case Study**

# Scheduling and Rightsizing Strategies

#### WAKEFIELD HIGH SCHOOL

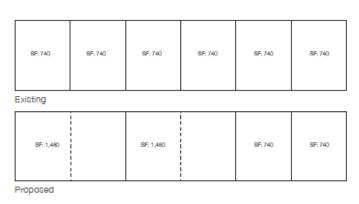


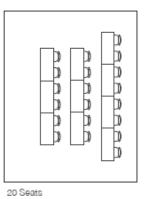
- 1. Introduce Scheduling software
- 2. Capture latent capacity
- 3. Use additional spaces

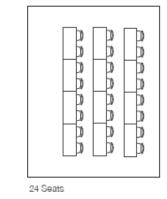
2A. Classroom Rightsizing: modify room size to better match class size

2B. Capacity Redefinition: adjust sf/student allocations to increase room capacities. This can be accomplished with the right furniture/technology that supports the learning environment.

2C. Professional Learning
Communities: provide collaborative
teacher work areas for each professional
learning communities, classrooms not
associated with individual teachers
enables higher utilization

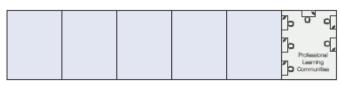








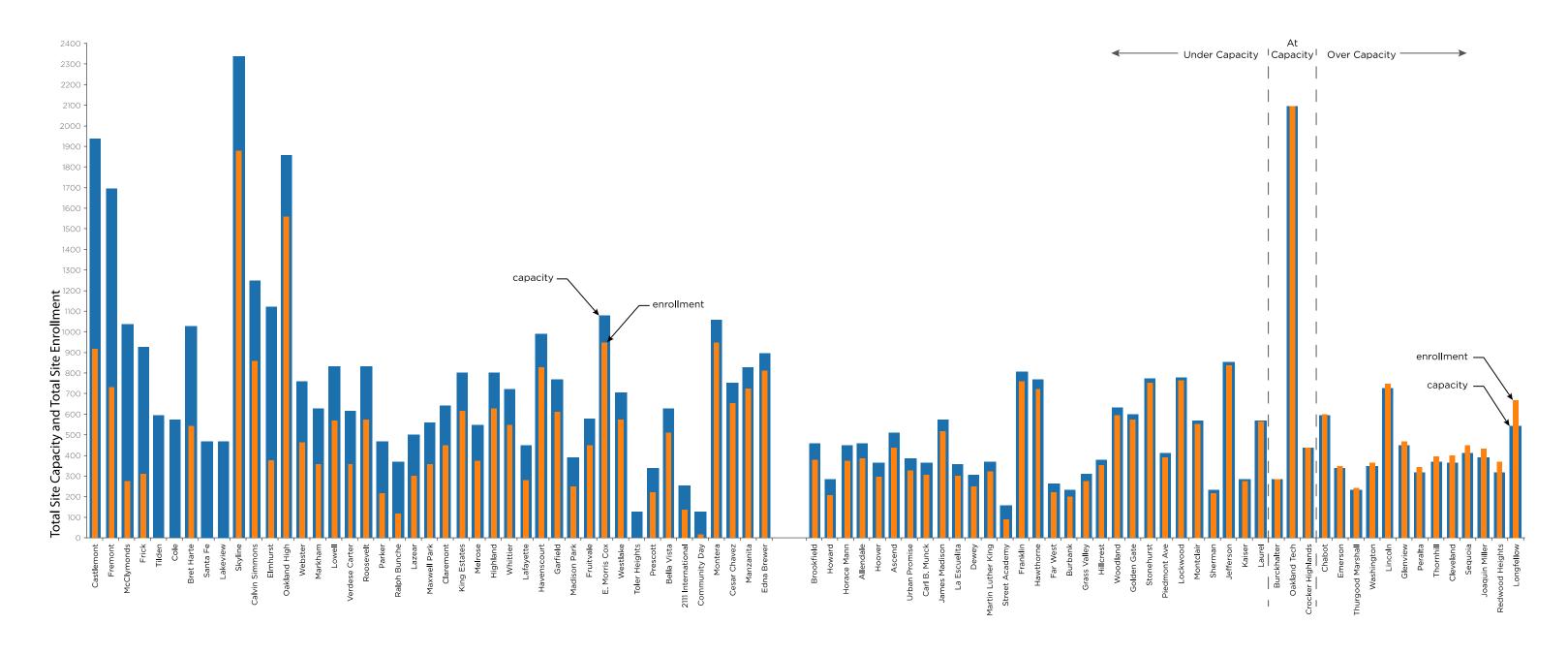
Existing - 8 Classrooms



Proposed - 5 Classrooms + 1 Teachers Prep Rooms



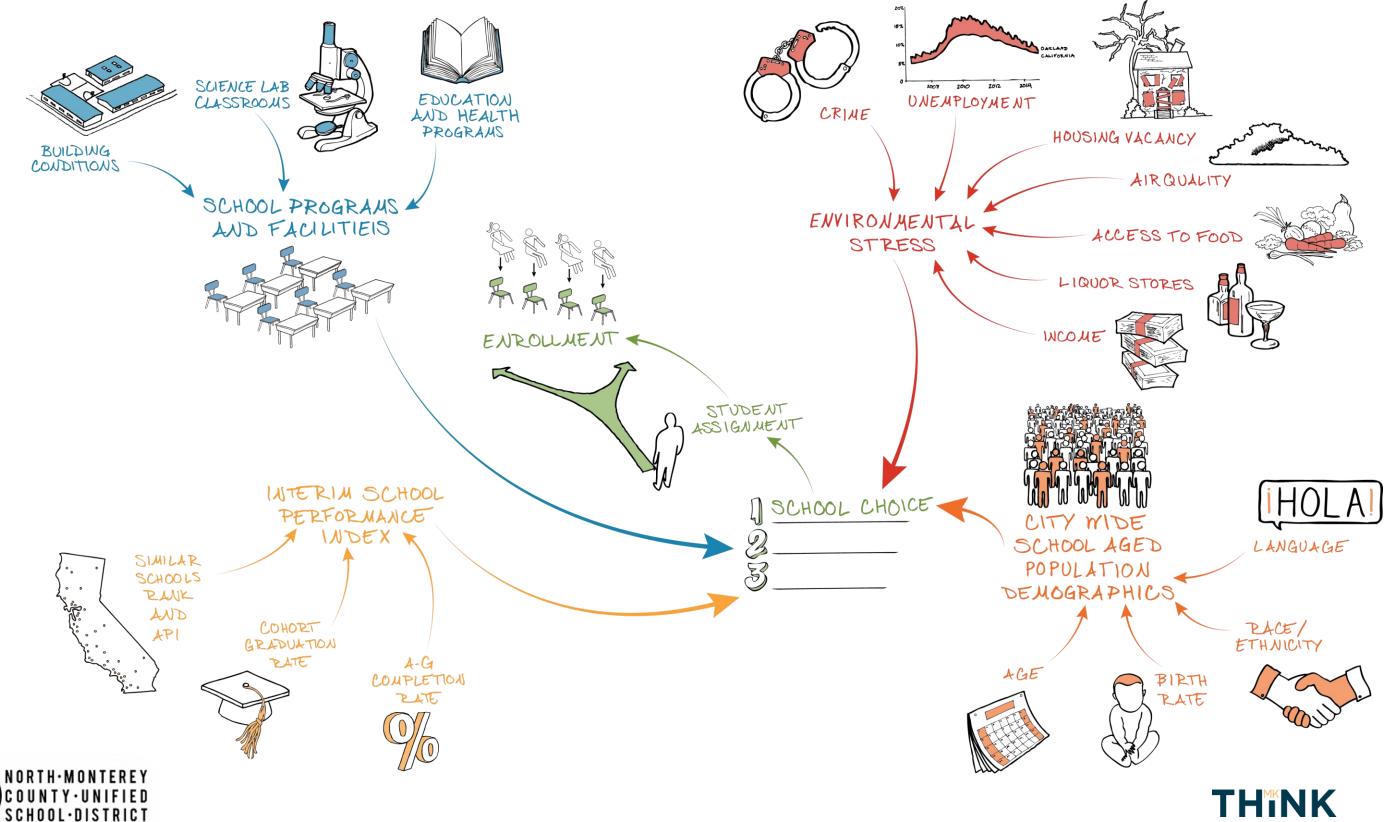
# Oakland Unified School District - Case Study Problem: Restore voter trust and pass a \$600 million bond with declining enrollment







Oakland Unified School District - Case Study Assessing OUSD's cultural ecosystem



# Oakland Unified School District - Case Study Assessing facility characteristics

OUSD Facility Comparison Study

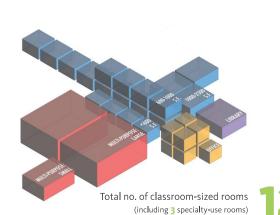
Loading Stan	dards	
Current	25/28/30	Contract Max.
K-3: 20	K-5: 25	K: 27
4 <b>-</b> 8: 24	6-8: 28	1-3: 30
9-12: 27	9-12: 30	4-5: 31
		6-12: 32

Similar sites

17

(11-14 rooms)

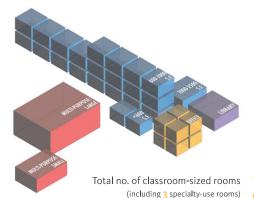
#### **Extra-small Elementary School**



Grade		Capacity at:			
	No. of classes (including split-level classes)	Current Ioading	25/28/30 Ioading	Contract Max loading	
	K	1.5	30	37.5	40.5
	1	1.5	30	37.5	45
	2	1.5	30	37.5	45
	3	1.5	30	37.5	45
	4	1.5	36	37.5	46.5
	5	1.5	36	37.5	46.5
	specialty- use	3	192	225	268

Total no. of students

#### Grade No. of cla



Capacity at: No. of classes Current 25/28/30 Contract Max. loading loading 3 60 75 81 3 60 75 90 60 90 90 72 93 3 72 93 3 384 450 537

Total no. of students

Similar sites

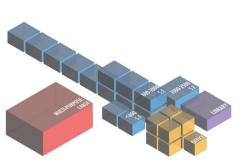
Similar sites

19

17

(21-28 rooms)

#### **Small Elementary School**

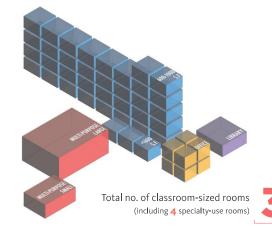


no. of classroom-sized rooms (including 3 specialty-use rooms)	1
and the second s	

	No. of classes (including split-level classes)	Capacity at:			
Grade		Current Ioading	25/28/30 Ioading	Contract Max. Ioading	
K	2	40	50	54	
1	2	40	50	60	
2	2	40	50	60	
3	2	40	50	60	
4	2	48	50	62	
5	2	48	50	62	
specialty- use	3	256	300	358	

Total no. of students

#### Large Elementary School



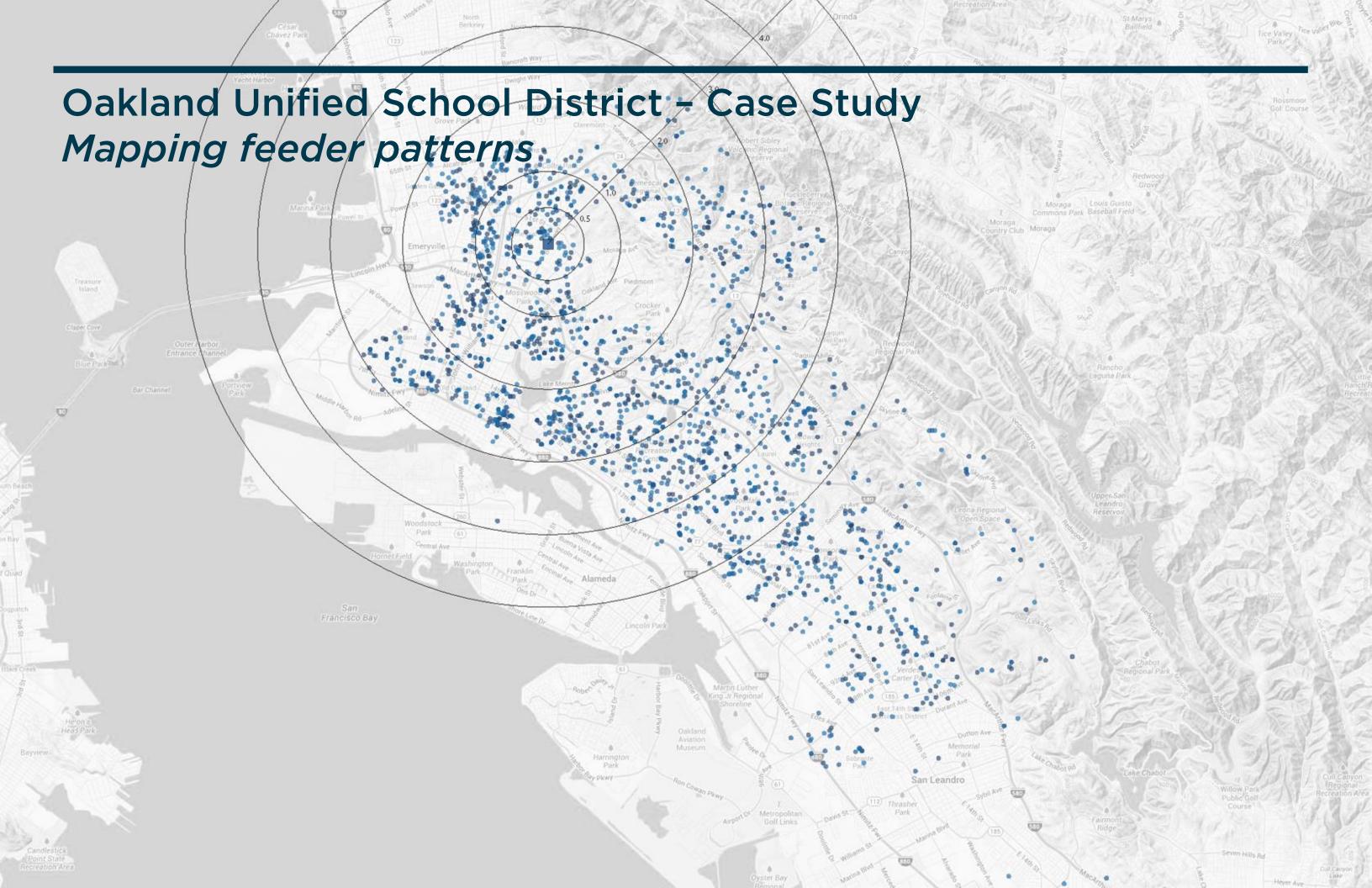
	K	
	1	
	2	
	3	
	4	
34	5	
	specialty- use	

		Capacity at:			
Grade	No. of classes (including split-level classes)	Current Ioading	25/28/30 Ioading	Contract Max. Ioading	
K	5	100	125	135	
1	5	100	125	150	
2	5	100	125	150	
3	5	100	125	150	
4	5	120	125	155	
5	5	120	125	155	
ecialty- use	4	640	750	895	

Total no. of students







# Oakland Unified School District - Case Study

Engaging the community







# Hawaii Department of Education: Case Study Problem: Cooling all Hawaii schools for \$100M



#### **KEY**

- Dry and Warm
  Annual Precipitation: 20-40 inches
  Annual Average Minimum Temperature: 50-55°F
- Rainy and Warm

  Annual Precipitation: 80-200 inches

  Annual Average Minimum Temperature: 40-60°F
- 1 Waimea HS
- 2 Niihau HS & ES
- 3 Waimea Canyon MS
- 4 Kekaha ES
- 5 Hanalei ES
- 6 Kilauea ES
- **7** Waialua Int & HS
- 8 Waialua ES
- 9 Haleiwa ES
- 10 Kahuku ES
- 11) Kahuku Int & HS
- 12 Molokai MS
- T ToTotkai T To
- 13 Molokai HS
- 14 Kaunakakai ES
- 15 Lahainaluna HS
- 16 Nahienaena ES
- 17 Lahaina Int

- 18 Kamehameha III ES
- 19 Hana ES & HS
- 20 Honokaa Int & HS
- 21 Honokaa ES
- 22 Kalanianaole ES & Int
- 23 Haaheo ES
- 24 Hilo Union ES
- 25 Hilo Int
- 26 Hilo HS
- **27** De Silva ES
- 28 Keonepoko ES
- 29 Pahoa Int & HS
- **30** Pahoa ES
- 31 Kau HS & Pahala ES
- 32 Kahakai ES
- **33** Kealakehe ES
- 34 Kealakehe HS





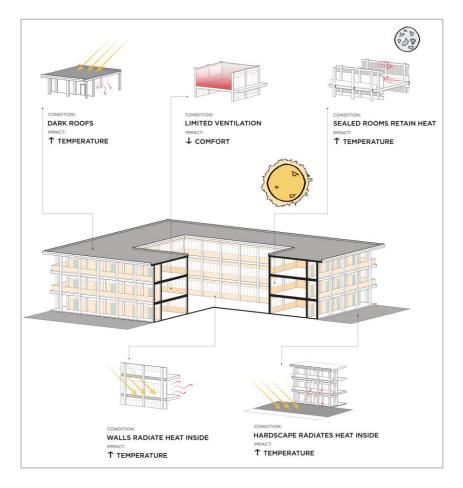


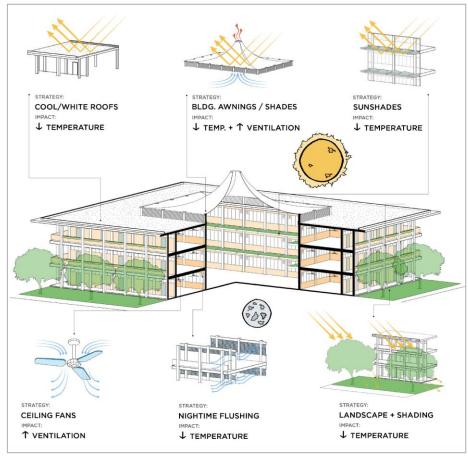






# Hawaii Department of Education: Case Study Developing Cost Effective Passive Design Strategies





















## Why MKThink?

- 1. The traditional, architecture-focused process is no longer an option
- 2. Cross-disciplinary experience with deep understanding of California K-12, regulatory and financing environments
- 3. Unique, evidence-based approach focused on optimizing student, teacher staff outcomes
- 4. Integration of both quantitative and qualitative data helps inform a true understanding of the issues and inform better decision making
- 5. Commitment to understanding and engaging community stakeholders
- 6. Proven record of uncovering and leveraging hidden value for our clients with significant operational and capital cost savings
- 7. Long-term commitment with clients to carry initiatives and projects through to completion

